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DOCUMENT-IDENTIFIER: US 6323300 B1

TITLE: Aromatic copolymer and composition containing the same

Detailed Description Text (113):

When a film is formed from the obtained copolymer solution by the above-mentioned method, followed by evaporation-off of the solvent contained in the copolymer solution, a copolymer film can be obtained. The obtained copolymer film as such not only is excellent in the heat resistance and water resistance but also exhibits excellent electrical properties, such as low dielectric constant, low dielectric loss and high breakdown voltage, so that the copolymer film has various uses. However, a crosslinked copolymer film, obtained by subjecting the copolymer film to crosslinking treatment, has improved heat resistance and improved solvent resistance, as compared to those of the copolymer film (prior to crosslinking treatment) and exhibits more excellent physical properties. The crosslinking can be conducted by a conventional method, such as heat treatment, light irradiation, electron beam irradiation and the like. However, in many cases, the process for producing electronic or electric parts includes a heat treatment step. Therefore, it is most convenient and preferable to conduct the crosslinking treatment by heat treatment in the course of the production of electronic or electric parts using the copolymer film of the present invention. The crosslinking of the copolymer film of the present invention proceeds simply by heating at an appropriate temperature. However, the crosslinked copolymer film having a high crosslinking density can be effectively obtained by using a solution prepared by adding a radical initiator to the above-mentioned copolymer solution.

Detailed Description Text (134):

The aromatic copolymer of the present invention or the copolymer film formed from a solution of the aromatic copolymer has an excellent heat resistance, excellent electrical characteristics (such as a low dielectric constant) and an excellent water resistance. Further, the crosslinked copolymer film obtained by subjecting the copolymer film to crosslinking treatment exhibits not only a more excellent heat resistance but also an excellent solvent resistance. Therefore, the above-mentioned copolymer film and crosslinked copolymer film can be advantageously used for the following objects.

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